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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

International application No. PCT/US2005/003594 International filling date (day/month/year) O4.02.2005 O4.02.2005 O4.02.2004 Priority date (day/month/year) O4.02.2004 Applicant 3M INNOVATIVE PROPERTIES COMPANY 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. ☑ sent to the applicant and to the International Bureau) a total of 10 sheets, as follows: □ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). □ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filled, as indicated in item 4 of Box No. I and the Supplemental Box. b. □ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: □ Box No. II Priority □ Box No. II Priority □ Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VI Certain documents cited □ Box No. VII Certain dosevations on the international application					
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International Patent Classification (IPC) or national classification and IPC B42F15/06 Applicant 3M INNOVATIVE PROPERTIES COMPANY 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. Sont to the applicant and to the International Bureau) a total of 10 sheets, as follows: sent to the applicant and to the International Bureau) a total of 10 sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Sox No. II Basis of the opinion Box No. IV Leck of unity of invention Box No. IV Leck of unity of invention Box No. VI Certain documents cited Box No. VII Certain descriptions on the International application	international approximation			ay/month/year)	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2005/003594

	Box No. I Basis of the report			
1.	. With regard to the language , this report is based on the international application in the language in which filed, unless otherwise indicated under this item.			
	which is the language of a tr	slations from the original language into the following language , anslation furnished for the purposes of: er Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of have been furnished to the receireport as "originally filed" and are	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):		
	Description, Pages			
	3-30	as originally filed		
	1, 2	received on 05.12.2005 with letter of 05.12.2005		
	Claims, Numbers			
	1-26	received on 05.12.2005 with letter of 05.12.2005		
	Drawings, Sheets			
	1/18-18/18	as originally filed		
	☐ a sequence listing and/or a	ny related table(s) - see Supplemental Box Relating to Sequence Listing		
3	In the amendments have resIn the description, pages	ulted in the cancellation of:		
	☐ the claims, Nos.☐ the drawings, sheets/fig	S		
	☐ the sequence listing (sp☐ any table(s) related to s	pecify): sequence listing (specify):		
4	 This report has been estable had not been made, since they Supplemental Box (Rule 70.2(c) 	blished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the c)).		
	 □ the description, pages □ the claims, Nos. □ the drawings, sheets/fig □ the sequence listing (s) □ any table(s) related to s 	pecify):		
		some or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2005/003594

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-26

No:

Claims

Inventive step (IS)

Yes: Claims

1-26

No: Claims

Industrial applicability (IA)

Yes: Claims

1-26

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents/:

D1: GB-A-1 053 292 (LESLIE PEAK) 30 December 1966 (1966-12-30)

D2: US-A-5 318 825 (NABER ET AL) 7 June 1994 (1994-06-07)

- The document D2 is regarded as being the closest prior art to the subject-matter of <u>claim 1</u> and shows (the references in parentheses applying to this document) a sheet (10) which may be selectively secured to a mounting substrate comprising:
 - -a first substrate having a writeable surface (16) on one side thereof and a mounting surface (18) on a second opposite side thereof;
 - -and a pressure layer including a pressure sensitive adhesive (22) exposed on the second side of the first substrate a standoff element on the second side of the first substrate,
 - -the standoff element having a height greater than a height of the adhesive -wherein in the absence of a threshold level of pressure applied to the pressure layer, the pressure sensitive adhesive is spaced from the mounting substrate, and wherein the sheet is deformable such that a threshold level of pressure applied to the pressure layer brings the pressure sensitive adhesive into sheet-securing engagement with the mounting substrate.

The subject-matter of claim 1 differs from this known sheet with repositionable adhesive in that it further comprises

- -a standoff element on the second side of the first substrate,
- -the standoff element having a height greater than a height of the adhesive
- -wherein in the absence of a threshold level of pressure applied to the pressure layer, the pressure sensitive adhesive is spaced from the mounting substrate, and wherein the sheet is deformable such that a threshold level of pressure applied to the pressure layer brings the pressure sensitive adhesive into sheet-securing engagement with the mounting substrate.

The problem to be solved by the present invention may be regarded as the provision

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/US2005/003594

of a sheet with an improved mechanism to make the sheet adhere or not to a substrate.

The solution to this problem proposed in <u>claim 1</u> of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: when considering the teaching of the prior art (see in particular D1), the man skilled in the art would no hint so as to make a sheet such as described in the current claim 1.

2. Claims 2 to 26 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

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SHEET WITH SELECTIVELY ACTIVATED ADHESIVE

BACKGROUND OF THE INVENTION

This invention relates to articles which can be selectively secured to a mounting substrate by pressure sensitive adhesive. More particularly, this invention relates to a substrate in sheet form such as an index card having a writeable surface on one side and a mounting surface on a second opposite side, with a securing mechanism operable via a pressure threshold adhesive mechanism which is selectively exposed on the mounting side of the first substrate. Dependent upon a level of threshold pressure applied to the securing mechanism, the exposed pressure sensitive adhesive is either spaced from the mounting substrate or the article is deformable to bring the pressure sensitive adhesive into article securing engagement with the mounting substrate.

Memories are imperfect. Thus, we often write down things we want to remember at a later date. This may be a grocery list, a "to do" list, a speech, study notes, or other information we do not want to forget. For example, a student may take a series of blank index cards and turn them into "flash cards" by writing information on one (or both) sides of each card in preparing for an examination. An individual giving a speech may record notes for that speech on a series of index cards which can be stacked and easily transported or even pocketed. The ubiquitous Post-it® brand notes available from 3M Company have also proved quite useful for noting information to be recalled at a later date. A Post-it® brand note is a sheet of paper bearing a band of repositionable pressure sensitive adhesive across a back side thereof. A Post-it® brand note can be mounted on any number of surfaces, such as, for example, another sheet of paper, a wall, a mirror, a computer monitor, refrigerator door, etc. Post-47® brand notes are traditionally distributed in pad form, with adjacent notes adhered to one another by the repositionable pressure sensitive adhesive thereon. The notes stick together whenever placed adjacent one another, and thus are not easily shuffled or rearrangeable in stacked form without peel separation of the adhesive therebetween.

Index cards come traditionally in 3 x 5 inch or 4 x 6 inch formats and are typically made from stiff, more durable paper than note paper. There is no adhesive on an index card and it is easily shuffled among a stack of index cards. To stick an index card on a wall or other surface, adding a separate strip of tape may be used. However, it would be desirable to selectively adhere an index card to a surface (such as a wall, sheet of paper or the like) yet retain the ability to shuffle a stack of such index cards (i.e., not have adjacent index cards always adhere together) without having to go to the trouble of removing a tape strip from each index card.

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BRIEF SUMMARY OF THE INVENTION

A sheet which may be selectively secured to a mounting surface includes at least a first substrate having a writeable surface on one side thereof and a mounting surface on a second opposite side thereof. The sheet also includes a securing mechanism including a pressure threshold adhesive mechanism which includes pressure sensitive adhesive exposed on the mounting side of the first substrate. In the absence of a threshold level of pressure applied to the securing mechanism, the pressure sensitive adhesive is spaced from the mounting substrate. The sheet is deformable such that a threshold level of pressure applied to the securing mechanism brings the pressure sensitive adhesive into sheet securing engagement with the mounting substrate.

BRIEF DESCRIPTION OF THE DRAWINGS

- FIG. 1 is an embodiment of the present invention, in the form of an index card, as viewed from a front major side thereof.
- FIG. 2 is a view of the index card of FIG. 1, from an opposite back major side thereof.
 - FIG. 3 is a sectional view as taken along lines 3-3 in FIG. 1.
 - FIG. 4 is a sectional view as taken along lines 4-4 in FIG. 1.
 - FIG. 5 is top view of the index card of FIG. 4, as taken along lines 5-5 in FIG. 4.
 - FIG. 6 is a sectional view of the index card of FIG. 4, showing its adherence to a vertical substrate surface.
 - FIG. 7 is a top view of the index card and substrate of FIG. 6, as taken along lines 7-7 in FIG. 6.
 - FIG. 8 is a side elevational view of a stack of index cards such as the index card illustrated in FIGS. 1-7, sitting on a horizontal substrate surface with the exposed adhesive on each index card not activated.
 - FIG. 9 illustrates a second embodiment of the present invention, as viewed from the back side of an index card.
 - FIG. 10 illustrates a third embodiment of the present invention, as viewed from the top of an index card.
 - FIG. 11 illustrates the index card of FIG. 10, as adhered to a substrate surface.
 - FIG. 12 illustrates a fourth embodiment of the present invention, as viewed from the back side of an index card.
- FIG. 13 illustrates a fifth embodiment of the present invention, as viewed from the back side of an index card.

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	1.	Aparticle which may be selectively secured to a mounting substrate
	comprising:	
		a first substrate having a writeable surface on one side thereof and a
5		mounting surface on a second opposite side thereof; and
		a securing mechanism including a pressure streshold adhesive mechanism
		including a pressure sensitive adhesive exposed on the second side of
	•	the first substrate, and a standoff < from page 36>,
10		wherein in the absence of a threshold level of pressure applied to the pressure layer, the pressure sensitive adhesive is spaced from
		the mounting substrate, and
		wherein the article is deformable such that a threshold level of pressure
		applied to the securing mechanism brings the pressure sensitive
		adhesive into article-securing engagement with the mounting
15		substrate.
٠.	2.	sheet The Inticity of claim 1 wherein the securing mechanism comprises:
	·	the first substrate having an aperture defined therein; and
	•	a second substrate having a first adhesive face and a second pressure face,
20		the first adhesive face being adhered to the writeable surface of the
	•	first substrate and extending across the aperture,
		wherein the second substrate is deformable such that a threshold level of
		pressure applied to the pressure face thereof brings the adhesive into
		contact with the mounting surface.
25		sheef
	3.	The stricted of claim 2 wherein the aperture is open along one edge of the first
	substrate.	·
	4.	The article of claim 2 wherein the second pressure face of the second substrate bears
30	indicia.	
	5.	Sheef The article of claim 1 wherein upon removal of the article from the mounting

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substrate, the securing mechanism substantially returns to its original undeformed shape.

6. The sticle of claim 1 wherein the first substrate is selected from a group consisting of paper, card stock, cardboard, plastic film, and combinations thereof.

The sheet of claim 1 wherein the first substrate has

paper layer having a writeable front side and an opposite back side, the first substrate paper layer having an upper edge with a portion of the paper layer being removed to define a paperless zone which includes a gap across the upper edge; and wherein the pressure layer includes a cover layer having an outer face and an inner face, the cover layer having pressure sensitive adhesive disposed on its inner face, with the cover layer adhered thereby to the front side of the paper layer to cover the paperless zone in an alignment where a top edge of the cover layer extends across the gap of the paperless zone and the adhesive on the inner face of the cover layer is exposed across the paperless zone on second the back side of the paper layer.

8. The index card assembly of claim 7 wherein the paper layer has a thickness and the cover layer is sufficiently flexible to bow across the thickness and the paperless zone to place at least a portion of the adhesive exposed thereon into adhering contact with the mountaing substrate with the back side of the paper layer.

Standoff element comprises a portion of the first substrate which >

Standoff element comprises a portion of the first substance which >

D. The index eard assembly of claim 7 wherein the outer face of the cover layer
is a writeable surface!

The index eard assembly of claim 7 wherein the outer face of the cover layer bears indicia!

30 N. 9. The index card assembly of claim N wherein the indicia includes color.

12. 10. The Index eard-assembly of claim I wherein the adhesive is a repositionable

< standof dument comprises a portion of the first substrate which >

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pressure sensitive adhesive.

The index card assembly of claim wherein the paper layer has a thickness sufficient to space the adhesive exposed on the cover layer from a surface in abutting engagement with the best side of the paper layer, in the absence of a pressure applied to the outer face of the cover layer urging it toward the surface.

The Index card assembly of claim 18, wherein a plurality of said Index card assemblied aligned in a stacked orientation fail to adhere together, absent the application of pressure to the outer faces of their respective cover layers.

The index card assembly of claim 7 wherein the gap is centered across the upper edge of the paper layer.

- 15 16. The index card assembly of claim 7 wherein the paperless zone has curved edges.
 - 17. The index card assembly of claim 7 wherein the paperless zone is V-shaped.
- 18. The index card assembly of claim 7 wherein the upper edge of the paper layer and the top edge of the cover layer are co-linear.
 - 19. The index card assembly of claim 7 wherein the paper layer has a plurality of paperless zones with exposed adhesive thereon.
 - 20. The index card assembly of claim 7 wherein the back side of the paper layer is writeable, and further comprising:

the paper layer has a lower edge with a portion of the paper layer being removed to define a second paperless zone which includes a gap across the lower edge; and

a second cover layer having an outer face and an inner face, the second cover layer having pressure sensitive adhesive disposed on its inner face

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with the cover layer adhered thereby to the back side of the paper layer to cover the second paperless zone in an alignment where a bottom edge of the second cover layer extends across the gap of the second paperless zone and the adhesive on the inner face of the second cover layer is exposed across the second paperless zone on the front side of the paper layer.

sheet standoff element.

The article of claim 1 wherein the securing mechanism comprises:

- a first generally linear raised element on the second side on the first substrate; and
- a second generally linear raised element on the second side of the first substrate, the second raised element aligned generally parallel to and spaced from the first raised element,
- wherein at least a portion of the pressure sensitive adhesive exposed on the second side of the first substrate is between the first and second raised elements and has a height lower than the first and second raised elements.
- The price of claim 21 wherein each of the raised elements may be selected from the group consisting of a continuous strip, a discontinuous strip, a bead, a plurality of beads, a rib of the first substrate, a plurality of ribs of the first substrate, a plurality of peaks of the first substrate, and combinations thereof.

wherein the securing mechanism comprises:

a spacer layer of material extending from the upper edge of the first substrate toward the pressure sensitive adhesive exposed on the second side of the first substrate, the spacer layer having a shape relative to the adhesive and having a height greater than a height of the adhesive, said shape and height of the spacer layer being sufficient to space the adhesive from the mounting substrate in the absence of the application of the threshold level of pressure.

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24. The article of claim 23 wherein the shape of the spacer layer comprises as edge adjacent the adhesive having one or more arcs thereon.

The stricted of claim 1 wherein the first substrate has an upper edge, and wherein the fecuring mechanism comprises:

a score line on the first substrate which is spaced from and parallel to the upper edge of the first substrate; and

a cut formed through the first substrate, the cut extending from a first end on the score line toward the upper edge to a first turn, extending from the first turn along and spaced from the upper edge to a second turn, and then extending from the second turn away from the upper edge to a second end of the cut on the score line.

15 26. The parallel to the upper edge of the first substrate.

The priced of claim 25 wherein a spacing portion of the first substrate is defined by the upper edge thereof, the score line, and the cut.

The frield of claim 27 wherein the fecuring mechanism further comprises:
the adhesive being disposed on the second side of the first substrate above
the score line; and

the spacing portion of the first substrate being folded over so that the adhesive thereon is bonded to the second side of the first substrate, thereby defining an upper non-folded tab portion of the first substrate bearing adhesive, and thereby forming a raised layer on the second side of the first substrate which has a thickness sufficient to space the adhesive on the tab portion from the mounting substrate in the absence of the threshold level of pressure.

29. 19. The desired of claim & wherein the recurring mechanism further comprises:

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the adhesive being disposed on the second side of the first substrate below the score line; and

section thereon is bonded to the second side of the first substrate by the adhesive, with the folded over spacing portion forming a raised layer, relative to adhesive exposed adjacent thereto, which has a thickness sufficient to space the adhesive exposed from the mounting substrate in the absence of the threshold level of pressure.

10 B0. The article of claim 1 wherein the securing mechanism comprises:

standoff

a raiset element on the second side of the first substrate, the raised element

having a height greater than a height of the adhesive

sheet 4 standoft
31, 20. The inticle of claim 30 wherein the raised element comprises a layer of
masking material applied over portions of the adhesive.

32.24. The sticle of claim 1 wherein the securing mechanism comprises:

a recess formed on the second side of the first substrate, the first side of the first substrate having no surface discontinuities relative to the recess, and the adhesive on the second side of the first substrate is disposed only within the recess, the recess having a depth, relative to an unrecessed portion of the second side of the first substrate, which is sufficient to space the adhesive from the mounting substrate in the absence of the application of the threshold level of pressure.

The dried of claim 38 wherein the first substrate has an upper edge, and wherein the recess has an upper border which extends along and is spaced from the upper edge of the first substrate.

The article of claim 34 wherein the first substrate has first and second side edges, and wherein the recess extends across the first substrate from first side edge to the second side edge thereof.

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The pressure sensitive adhesive has an edge on the second side of first substrate, and wherein the second side of first substrate, and wherein the second side of first substrate.

a spacer layer of material on the second side of the first substrate adjacent the edge of the exposed pressure sensitive adhesive, the spacer layer having having a shape relative to the adhesive and having a height greater than a height of the adhesive, said shape and height of the spacer layer being sufficient to space the adhesive from the mounting substrate in the absence of the application of the threshold level of pressure.

The sheet of claim 13 wherein 36, 25. An adhesive mountable article comprising:

a substrate having a writeable surface on a first side thereof and a mounting surface on a second opposite side thereof,

a pressure sensitive adhesive zone disposed on the second side of the substrate, the pressure sensitive adhesive zone having a first height;

the first raised element adjacent to and defining a first border for the pressure sensitive adhesive zone and

the second raised element aligned generally parallel to and spaced from the first raised element and the second raised element adjacent to and defining a second border for the pressure sensitive adhesive zone, wherein the pressure sensitive adhesive extends between the first and second raised elements, and wherein the first and second raised elements have heights greater than the first height of the pressure sensitive adhesive zone.

30 32. The inticity of claim 36 wherein the pressure sensitive adhesive zone is disposed on a first section of the substrate, and wherein the first section of the substrate is deformable such that a threshold level of pressure applied to the first side of the substrate

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brings the pressure sensitive adhesive zone into article-securing engagement with a mounting substrate.

- 78. The article of claim 37 wherein, upon removal of the article from the mounting substrate, the first section of the substrate substantially returns to its original undeformed shape.
 - 39. The article of claim 36 wherein the substrate is selected from a group consisting of paper, card stock, cardboard, plastic film, and combinations thereof.
 - 40. The article of claim 36 wherein the heights of the first and second raised elements are sufficient to space the pressure sensitive adhesive zone from a surface in abutting engagement with the second side of the substrate, in the absence of a pressure applied to the first side of the substrate opposite the pressure sensitive adhesive zone urging it toward the surface.
 - 41. The article of claim 36 wherein each of the raised elements may be selected from a group consisting of a continuous strip, a discontinuous strip, a bead, a plurality of beads, a rib of the substrate, a plurality of ribs of the substrate, and combinations thereof

AMENDED SHEET